

NEW POLYURETHANES AND THEIR USE FOR THE THICKENING OF
AQUEOUS SYSTEMS

ABSTRACT OF THE DISCLOSURE

The invention relates to a new hydrophilic/ water-soluble or water-dispersible polyurethane comprising the reaction product of

- A) at least one polyether polyol a1) having a average functionality of ≥ 3 and at least one urethane group-containing polyether polyol a2) having an average functionality of ≥ 4 ,
- B) at least one monoalcohol with 6 to 22 carbon atoms,
- C) at least one (cyclo)aliphatic and/or aromatic diisocyanate
- D) optionally at least one monoisocyanate with 4 to 18 carbon atoms, and
- E) optionally at least one polyisocyanate having a average functionality of > 2 ,

wherein the starting NCO/OH equivalent ratio is between 0.5:1 to 1.2:1, and which is suitable as thickening agents for aqueous systems, with a particularly efficient thickening effect in the high-shear range.